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ABSTRACT

This collection and analysis of data on minorities in engineering emphasizes: minority engineering students by field, men; minority engineering students by field, women; minority engineering students by degree level; class standing of women and minority engineering students; high school background and standing of women and minority engineering students; and financial support for women and minority engineering students. Highlights indicate (1) Women tend to be less concentrated than men in the four major fields (electrical, mechanical, civil, and chemical) and more strongly represented in such others as engineering sciences, computer, and industrial engineering. Among minority men, Orientals and Blacks appear to have a preference for electrical engineering, while the American Indians and Spanish Surnamed are noticeable more likely to be found in civil engineering. (2) The Orientals and women have a noticeable higher percentage of master's and doctor's degree candidates, and the American Indians have the highest percentage in bachelor of technology programs. (3) Orientals and Caucasian women are more likely to be in the top third of the class while Blacks and Spanish Surnamed are more likely to be in the bottom third. (4) Black women appear to be receiving the highest average amount of financial support and Caucasian women the least, with Oriental men lower than the other minorities. (Author/MJM)

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STATISTICS ON WOMEN AND MINORITY STUDENTS IN ENGINEERING

APRIL 1974

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A Report by the

Engineering Manpower Commission
of
Engineers Joint Council

345 East 47th Street
New York, N.Y. 10017

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John D. Alden
Executive Secretary
Engineering Manpower Commission

Statistics on Women and Minorities in Engineering

Introduction

The statistics in this report were derived from a survey of engineering and engineering technology enrollments in the fall of 1973. All U.S. engineering schools and all institutions having at least one engineering technology curriculum accredited by Engineers Council for Professional Development were asked to provide data with regard to all engineering or technology students who were expected to obtain a degree within the 2-year period following the survey. Information was requested on a person by person basis in order to permit analysis in more detail than had previously been possible. Respondents were given the options of identifying students by number instead of name, or of providing data for statistical use only. Usable data were provided by 148 schools: 134 engineering colleges and 14 technology institutions.

This report consists of statistical tabulations derived from the entire group of responding schools. (Another report, Roster of Women and Minority Engineering Students, April 1974, includes only students from those schools that did not restrict their data for statistical use only.) The basic data bank contains 3,209 records of individual students, not all of which contain data for all items listed on the survey form. The number of records included in each data table will differ from this depending on the number of instances where specific items of information were omitted by the reporting institution or inadvertently eliminated in the process of coding and keypunching the data. Generally speaking, schools were quite consistent in reporting or omitting information with respect to their students. For instance, those that reported class standing did so for practically all of their students, while other schools did not report class standing for any.

When attempting to make use of any of the data in this report, care should be taken to note the actual number of students in the category under consideration and the number for whom no information was provided. The smaller the first number and the larger the second, the less reliable will be the statistics derived from the data.

The paragraphs that follow give some of the highlights indicated by the data in the tables. All tables are broken down according to ethnic or minority group, with Caucasian applicable only to the women students in the survey. Caution is required in connection with some of these groups. All are supposed to be composed of U.S. citizens from the minority group indicated, but it is possible that some non-citizens (i.e. foreign nationals studying in the U.S.) may have been included. The officially designated Oriental minority group is limited to persons of Chinese, Japanese, Korean, Filipino, or other Far Eastern origin. However, in scrutinizing the names reported on some survey forms it appeared that a number of students of Indian, Pakistani, Iranian, or other Near Eastern origin were listed. Where such names could be identified they

were coded as Other rather than Oriental, but where names were not given the minority identification provided by the school had to be accepted. Therefore it is probable that the Asian/Oriental group includes some students who are not in the officially defined minority.

The Other group is an unknown quantity as it includes all students who were not identified with any of the other ethnic groups. This column is included in the tables for completeness rather than because of any inherent significance in the data for the group itself.

Distribution by Minority Group and Sex.

Although the distribution varies slightly for each data table, the numbers of students included in the survey, broken down by minority and sex, were as follows:

	Male	Female	Total
Black	595	39	634
Spanish Surnamed	490	24	514
Asian/Oriental	586	41	627
American Indian	66	1	67
Other	184	208	392
Caucasian	NA	932	932
Total	1921	1245	3166

*43 additional names could not be counted because of missing information, making a grand total of 3209.

It is interesting to note that women constitute 5.7% of the fully identified minority students reported (105 out of 1842 Black, Spanish Surnamed, Asian/Oriental, and American Indian.) This appears to be somewhat higher than the percentage of women among white engineering students, as reported by other surveys.

Distribution by Field of Engineering (Tables 1 and 2)

These tables include only 1833 men and 1154 women because Associate Degree students were not included in this distribution. The percentage distribution by sex, minority, and major curriculum was as follows:

	Electrical	Mechanical	Civil	Chemical	All Fields
Black Men	41%	20%	10%	7%	100%
Spanish Surname Men	32	18	21	4	100
Asian/Oriental Men	43	20	17	5	100
American Indian Men	28	16	29	2	100
All Men	38	19	16	5	100
All Women (Mostly Caucasian)	15	9	17	12	100

The most striking feature here is the difference between the curriculum preferences of the women as compared to the men. Table 2 indicates that the women tend to be less concentrated than men in the four major fields and more strongly represented in others such as engineering sciences,

computer, and industrial engineering. Among minority men, the Orientals and Blacks appear to have a preference for electrical engineering, while the American Indians and Spanish Surnamed are noticeably more likely to be found in civil engineering.

Distribution by Degree Level (Table 3)

While all groups are predominantly at the bachelor's degree level, the percentages vary rather widely among minority groups. The Orientals and women have a noticeably higher percentage of master's and doctor's degree candidates, and the American Indians have the highest percentage in bachelor of technology programs. The percentages of Spanish Surnamed and American Indians at the doctoral level are very small. Associate degree candidates were not counted when compiling this table.

Class Standing (Table 4)

Class standing was given for about 55% of the students reported in the survey. Overall, they appear to be distributed quite evenly among the top, middle, and bottom thirds of the class. However, Orientals and Caucasian women are more likely to be in the top third, Blacks and Spanish Surnamed in the bottom third.

High School Background and Class Standing (Tables 5 and 6)

So little information was reported under these categories that the data are probably not significant. Generally speaking, women and minority students appear to have come from predominantly white high schools (except for Blacks) and to have stood in the top third of their high school classes.

Financial Support (Table 7)

This table is broken down by the degree of support provided. Information was available on only 18% of the students reported. In some cases dollar amounts were given while in others the type of support was given (i.e. full tuition, fellowship etc.) without the dollar amount, or the support may have consisted of a combination of both. In order to permit more detailed analysis, a complete listing of all students receiving support (without identification as to name) is provided after Table 7.

The last line of Table 7 gives the average amount of support in dollars for those students who were reported as receiving a specific amount. Since some students were also receiving other assistance in addition to the amount indicated, the average dollar figure understates the true value of the support received.

As a general observation, Black women appear to be receiving the highest average amount and Caucasian women the least, with Oriental men lower than the other minorities.

Explanation of Abbreviations and Symbols

YEAR	Expected year of graduation
MAJOR	Field of engineering or technology study, as follows: AC - Air Conditioning AE - Aerospace AG - Agricultural AR - Architectural AT - Atmospheric Sciences AU - Automitive BI - Biomedical CE - Ceramic CH - Chemical CI - Civil CO - Communications CS - Computer Science DD - Drafting & Design EL - Electrical or Electronic EN - Engineering ES - Engineering Sciences ET - Engineering Technology EV - Environmental GL - Geological IN - Industrial ME - Mechanical MI - Mining MS - Materials Science MT - Metallurgical NU - Nuclear OE - Ocean or Marine OP - Optics OT - Other PE - Petroleum RA - Radiation SY - Systems TR - Transportation
DEG	Degree level, as follows: A - Associate B - Bachelor's in engineering D - Doctor's E - Engineer (between Master's and Doctor's) M - Master's T - Bachelor's in technology
ETHNIC GROUP	A - Asian/Oriental (see note) B - Black C - Caucasian (applies to women only) I - American Indian O - Other (see note) S - Spanish Surnamed Note: the officially designated Oriental minority group consists of Chinese, Japanese, Filipinos, and other Far Eastern groups. It does not include Indians, Pakistanis, and Middle Eastern nationalities. Where such non-Oriental names were identifiable, ethnic group code O has been substituted. In the case of students whose names were not given, it is probable that some non-Orientals are miscoded under Code A.
CLASS STAND	Given as 1 (top third), 2 (middle third), or 3 (bottom third). 0 indicates not reported.

TABLE 1

MEN ONLY

MINORITY ENGINEERING STUDENTS BY FIELD

FIELD	MINORITY GROUP													
	BLACK		SPANISH SURNAME		ASIAN/ ORIENTAL		AMER. INDIAN		OTHER		CAUC-ASIAN		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
AIR CONDITION	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AEROSPACE	11	22	9	18	9	18	0	0	21	42	0	0	50	100
AGRICULTURAL	3	19	5	31	2	13	1	6	5	31	0	0	16	100
ARCHITECTURAL	8	53	4	27	2	13	0	0	1	7	0	0	15	100
AIR RESOURCES	0	0	0	0	1	100	0	0	0	0	0	0	1	100
AUTOMOTIVE	0	0	0	0	0	0	1	100	0	0	0	0	1	100
BIOMEDICAL	3	50	0	0	3	50	0	0	0	0	0	0	6	100
CERAMIC	1	33	1	33	1	33	0	0	0	0	0	0	3	100
CHEMICAL	35	35	18	18	30	30	2	2	14	14	0	0	99	100
CIVIL	52	18	101	34	101	34	17	6	26	9	0	0	297	100
COMMUNICATIONS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COMPUTER	3	38	1	13	2	25	2	25	0	0	0	0	8	100
DRAFTING	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ELECTRICAL	215	31	152	22	253	36	16	2	65	9	0	0	701	100
ENGINEERING	18	32	18	32	12	21	2	4	6	11	0	0	56	100
ENG SCIENCES	9	26	15	43	5	14	0	0	6	17	0	0	35	100
ENG TECHNOLOGY	6	26	15	65	1	4	1	4	0	0	0	0	23	100
ENVIRONMENTAL	1	17	3	50	2	33	0	0	0	0	0	0	6	100
GEOLOGICAL	0	0	4	44	5	56	0	0	0	0	0	0	9	100
INDUSTRIAL	28	50	12	21	12	21	1	2	3	5	0	0	56	100
MECHANICAL	108	31	87	25	117	34	9	3	25	7	0	0	346	100
MINING	0	0	4	67	2	33	0	0	0	0	0	0	6	100
MATERIALS	2	22	1	11	4	44	0	0	2	22	0	0	9	100
METALLURGICAL	3	14	11	50	8	36	0	0	0	0	0	0	22	100
NUCLEAR	10	48	2	10	7	33	1	5	1	5	0	0	21	100
OCEAN	1	17	2	33	3	50	0	0	0	0	0	0	6	100
OPTICS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER	2	40	1	20	1	20	1	20	0	0	0	0	5	100
PETROLEUM	1	8	8	62	2	15	2	15	0	0	0	0	13	100
RADIATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYSTEMS	6	86	1	14	0	0	0	0	0	0	0	0	7	100
UNDESIGNATED	4	25	2	13	0	0	2	13	8	50	0	0	16	100
TOTAL	530	29	477	26	585	32	58	3	183	10	0	0	1833	100

NOTE: EXCLUDES ASSOCIATE DEGREES

TABLE 2

WOMEN ONLY

MINORITY ENGINEERING STUDENTS BY FIELD

FIELD	MINORITY GROUP													
	BLACK		SPANISH SURNAME		ASIAN/ ORIENTAL		AMER. INDIAN		OTHER		CAUC-ASIAN		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
AIP CONDITION	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AEROSPACE	0	0	0	0	0	0	0	0	4	27	11	73	15	100
AGRICULTURAL	0	0	0	0	1	33	0	0	1	33	1	33	3	100
ARCHITECTURAL	1	8	0	0	0	0	0	0	0	0	11	92	12	100
AIR RESOURCES	0	0	0	0	0	0	0	0	0	0	1	100	1	100
AUTOMOTIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	1	13	0	0	0	0	2	25	5	63	8	100
CERAMIC	2	11	0	0	0	0	0	0	11	61	5	28	18	100
CHEMICAL	6	4	3	2	6	4	0	0	16	12	105	77	136	100
CIVIL	4	2	3	2	8	4	0	0	29	15	150	77	194	100
COMMUNICATIONS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COMPUTER	1	1	2	3	1	1	0	0	24	35	41	59	69	100
DRAFTING	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ELECTRICAL	11	6	5	3	8	5	0	0	33	19	118	67	175	100
ENGINEERING	1	2	2	4	1	2	0	0	20	39	27	53	51	100
ENG SCIENCES	3	3	3	3	2	2	1	1	4	4	76	85	89	100
ENG TECHNOLOGY	0	0	0	0	0	0	0	0	1	100	0	0	1	100
ENVIRONMENTAL	0	0	0	0	0	0	0	0	0	0	11	100	11	100
GEOLOGICAL	0	0	0	0	2	7	0	0	1	3	26	90	29	100
INDUSTRIAL	3	4	3	4	2	3	0	0	12	16	56	74	76	100
MECHANICAL	4	4	1	1	4	4	0	0	16	15	81	76	106	100
MINING	0	0	0	0	0	0	0	0	0	0	3	100	3	100
MATERIALS	0	0	0	0	0	0	0	0	0	0	8	100	8	100
METALLURGICAL	0	0	0	0	1	3	0	0	2	7	26	90	29	100
NUCLEAR	0	0	1	4	1	4	0	0	0	0	22	92	24	100
OCEAN	0	0	0	0	1	8	0	0	4	33	7	58	12	100
OPTICS	0	0	0	0	0	0	0	0	0	0	2	100	2	100
OTHER	0	0	0	0	0	0	0	0	0	0	6	100	6	100
PETROLEUM	0	0	0	0	0	0	0	0	1	100	0	0	1	100
RADIATION	0	0	0	0	0	0	0	0	0	0	3	100	3	100
SYSTEMS	0	0	0	0	1	3	0	0	5	15	28	82	34	100
UNDESIGNATED	0	0	0	0	2	5	0	0	22	58	14	37	38	100
TOTAL	36	3	24	2	41	4	1	0	208	18	844	73	1154	100

NOTE: EXCLUDES ASSOCIATE DEGREES

TABLE 3

MEN ONLY

MINORITY ENGINEERING STUDENTS BY DEGREE LEVEL

DEGREE LEVEL	MINORITY GROUP BLACK	SPANISH SURNAME	ASIAN/ ORIENTAL	AMER. INDIAN	OTHER	CAUC-ASIAN	TOTAL
BACH ENGRG	382	410	429	34	116	0	1371
BACH TECH	55	28	11	22	10	0	126
MASTER	73	34	108	1	39	0	255
ENGINEER	3	2	0	0	0	0	5
DOCTOR	14	3	35	0	16	0	68
NOT GIVEN	3	0	2	1	2	0	8
TOTAL	530	477	585	58	183	0	1833

WOMEN ONLY

MINORITY ENGINEERING STUDENTS BY DEGREE LEVEL

DEGREE LEVEL	MINORITY GROUP BLACK	SPANISH SURNAME	ASIAN/ ORIENTAL	AMER. INDIAN	OTHER	CAUC-ASIAN	TOTAL
BACH ENGRG	28	19	29	1	134	599	810
BACH TECH	2	0	0	0	2	21	25
MASTER	4	2	9	0	21	160	196
ENGINEER	0	1	0	0	0	4	5
DOCTOR	2	0	3	0	14	56	75
NOT GIVEN	0	2	0	0	37	4	43
TOTAL	36	24	41	1	208	844	1154

NOTE: EXCLUDES ASSOCIATE DEGREES

TABLE 4

MEN ONLY

CLASS STANDING OF WOMEN AND MINORITY ENGINEERING STUDENTS

CLASS STANDING	MINORITY GROUP BLACK	SPANISH SURNAME	ASIAN/ ORIENTAL	AMER. INDIAN	OTHER	CAUC-ASIAN	TOTAL
TOP THIRD	53	92	139	10	37	0	331
MIDDLE THIRD	91	112	114	19	20	0	356
LOWER THIRD	160	161	102	17	16	0	456
NOT GIVEN	291	125	231	20	111	0	778
TOTAL	595	490	586	66	184	0	1921

WOMEN ONLY

CLASS STANDING OF WOMEN AND MINORITY ENGINEERING STUDENTS

CLASS STANDING	MINORITY GROUP BLACK	SPANISH SURNAME	ASIAN/ ORIENTAL	AMER. INDIAN	OTHER	CAUC-ASIAN	TOTAL
TOP THIRD	1	5	15	1	22	242	286
MIDDLE THIRD	8	11	2	0	13	165	199
LOWER THIRD	12	1	5	0	6	99	123
NOT GIVEN	18	7	19	0	167	426	637
TOTAL	39	24	41	1	208	932	1245

TABLE 5

MEN ONLY

HIGH SCHOOL BACKGROUND OF WOMEN AND MINORITY ENGINEERING STUDENTS

TYPE OF HIGH SCHOOL	MINORITY GROUP BLACK	SPANISH SURNAME	ASIAN/ ORIENTAL	AMER. INDIAN	OTHER	CAUC-ASIAN	TOTAL
OVER 60% WHITE	28	22	27	9	11	0	97
40-60% WHITE	23	2	5	2	9	0	41
OVER 60% MINORITY	30	2	4	0	11	0	47
TOTAL GIVEN	81	26	36	11	31	0	185
NOT GIVEN	513	463	550	55	153	0	1734
TOTAL	594	489	586	66	184	0	1919

WOMEN ONLY

HIGH SCHOOL BACKGROUND OF WOMEN AND MINORITY ENGINEERING STUDENTS

TYPE OF HIGH SCHOOL	MINORITY GROUP BLACK	SPANISH SURNAME	ASIAN/ ORIENTAL	AMER. INDIAN	OTHER	CAUC-ASIAN	TOTAL
OVER 60% WHITE	2	1	0	1	4	198	206
40-60% WHITE	2	2	0	0	1	11	16
OVER 60% MINORITY	2	0	0	0	0	1	3
TOTAL GIVEN	6	3	0	1	5	210	225
NOT GIVEN	33	21	41	0	202	722	1019
TOTAL	39	24	41	1	207	932	1244

TABLE 6

MEN ONLY

HIGH SCHOOL STANDING OF WOMEN AND MINORITY ENGINEERING STUDENTS

CLASS STANDING	MINORITY GROUP BLACK	SPANISH SURNAME	ASIAN/ ORIENTAL	AMER. INDIAN	OTHER	CAUC-ASIAN	TOTAL
TOP THIRD	56	27	33	3	19	0	138
MIDDLE THIRD	22	5	3	1	15	0	46
LOWER THIRD	2	0	0	1	1	0	4
NOT GIVEN	515	458	550	61	149	0	1733
TOTAL	595	490	586	66	184	0	1921

WOMEN ONLY

HIGH SCHOOL STANDING OF WOMEN AND MINORITY ENGINEERING STUDENTS

CLASS STANDING	MINORITY GROUP BLACK	SPANISH SURNAME	ASIAN/ ORIENTAL	AMER. INDIAN	OTHER	CAUC-ASIAN	TOTAL
TOP THIRD	4	3	3	1	1	164	176
MIDDLE THIRD	0	2	0	0	0	18	20
LOWER THIRD	0	0	0	0	0	7	7
NOT GIVEN	35	19	38	0	207	743	1042
TOTAL	39	24	41	1	208	932	1245

TABLE 7

FINANCIAL SUPPORT FOR WOMEN AND MINORITY ENGINEERING STUDENTS

MEN ONLY

SUPPORT	MINORITY GROUP BLACK	SPANISH SURNAME	ASIAN/ ORIENTAL	AMER. INDIAN	OTHER	CAUC-ASIAN	TOTAL
NONE	26	15	33	8	7	0	89
1-999	18	6	10	1	4	0	39
1000-1999	19	7	9	0	5	0	40
2000-2999	25	9	11	0	3	0	48
3000 AND UP	22	10	5	2	6	0	45
AMT NOT GIVEN	51	9	14	3	4	0	81
TOTAL WITH INFO	161	56	82	14	29	0	342
NO INFO	434	434	504	52	155	0	1579
TOTAL	595	490	586	66	184	0	1921
AVERAGE SUPPORT	2194	2266	1886	2434	2965	0	2277

WOMEN ONLY

SUPPORT	MINORITY GROUP BLACK	SPANISH SURNAME	ASIAN/ ORIENTAL	AMER. INDIAN	OTHER	CAUC-ASIAN	TOTAL
NONE	2	1	1	0	1	103	108
1-999	0	2	1	1	3	48	55
1000-1999	2	0	1	0	0	46	49
2000-2999	1	2	1	0	1	27	32
3000 AND UP	5	1	1	0	0	20	27
AMT NOT GIVEN	0	0	0	0	7	29	36
TOTAL WITH INFO	10	6	5	1	12	273	307
NO INFO	29	18	36	0	196	659	938
TOTAL	39	24	41	1	208	932	1245
AVERAGE SUPPORT	3432	2065	2012	340	1690	1617	1724

WOMEN & MINORITY ENGINEERING STUDENTS WITH FINANCIAL SUPPOPT

YEAR	MAJOR	DEGREE	SEX	ETHNIC GROUP	CLASS STANDING	FINANCIAL SUPPORT AMOUNT	TYPE
0	AR	B	F	C	0	0	LOAN
0	AR	M	F	C	0	0	TUTOR
0	CS	-	M	I	0	3300	BIA LWFL
0	EN	-	M	A	0	600	LWSA
0	IN	B	F	C	0	500	-
0	ME	B	F	C	0	0	WS
0	NU	-	M	O	0	0	NROTC
73	CI	B	M	I	0	3102	LWFL NOSL BIA W/S
73	ME	D	M	O	1	0	INST
73	ME	M	M	B	1	2400	FELLOW
74	-	M	F	C	1	0	ASST
74	AC	A	M	B	0	0	VA
74	AE	B	M	-	3	0	VA
74	AE	B	M	B	1	3133	-
74	AE	M	F	C	0	0	RA
74	AE	M	M	A	3	0	TA
74	AE	M	M	A	2	0	TA
74	AR	B	F	C	0	0	LOAN
74	AT	B	F	C	1	1000	AFROTC
74	BI	B	F	S	2	4170	GRANT LOAN
74	BI	D	F	C	0	2600	+ TUITION
74	BI	M	M	B	0	2880	+ TUITION
74	CE	M	F	C	0	0	RA
74	CE	M	M	A	0	0	RA
74	CH	A	F	C	0	0	SCHOL
74	CH	A	F	C	1	500	-
74	CH	A	F	C	1	500	-
74	CH	A	F	C	2	700	-
74	CH	A	F	C	3	1260	-
74	CH	A	F	C	0	1260	-
74	CH	A	M	B	0	0	SS
74	CH	B	-	A	1	0	SCH.
74	CH	B	F	-	0	0	SCH.
74	CH	B	F	C	2	4250	-
74	CH	B	F	C	1	3000	-
74	CH	B	F	C	1	2700	-
74	CH	B	F	C	1	600	-
74	CH	B	F	C	2	300	-
74	CH	B	F	C	2	300	-
74	CH	B	F	C	1	1325	-
74	CH	B	F	C	1	450	-
74	CH	B	F	C	1	1751	-
74	CH	B	F	C	1	1056	-
74	CH	B	F	C	1	956	-
74	CH	B	F	C	2	1100	-
74	CH	B	F	C	1	2000	-
74	CH	B	F	C	3	1650	-
74	CH	B	F	C	2	2500	-
74	CH	B	F	C	1	2000	-

YEAR	MAJOR	DEGREE	SEX	ETHNIC GROUP	CLASS STANDING	FINANCIAL SUPPORT AMOUNT	TYPE
74	CH	B	F	C	2	1600	-
74	CH	B	M	A	1	300	-
74	CH	B	M	A	1	564	-
74	CH	B	M	A	0	1600	-
74	CH	B	M	B	3	2500	-
74	CH	B	M	B	3	2800	-
74	CH	B	M	B	2	500	-
74	CH	B	M	B	1	3230	-
74	CH	B	M	B	3	5000	-
74	CH	B	M	B	2	3550	-
74	CH	B	M	B	1	0	VA
74	CH	B	M	F	1	4610	GRANT LOAN
74	CH	B	M	O	1	250	-
74	CH	B	M	S	0	5750	-
74	CH	M	F	C	1	300	-
74	CH	M	M	A	0	2800	G.A.
74	CH	M	M	A	0	0	TA
74	CI	B	F	-	3	0	SCH.
74	CI	B	F	C	1	1000	SCHOL
74	CI	B	F	C	1	0	SCHOL LOAN
74	CI	B	F	C	2	300	-
74	CI	B	F	C	1	250	-
74	CI	B	F	C	1	400	-
74	CI	B	F	C	0	2700	-
74	CI	B	F	C	2	1600	-
74	CI	B	F	C	1	3000	-
74	CI	B	F	C	3	0	WS
74	CI	B	M	A	2	2700	0
74	CI	B	M	A	1	2700	UOP NDEA
74	CI	B	M	A	1	0	BOEING
74	CI	B	M	B	2	0	SCHOL
74	CI	B	M	B	3	2550	SEOG SPTD GILP
74	CI	B	M	B	3	2450	-
74	CI	B	M	B	1	3200	NDEA UOP
74	CI	B	M	B	3	1035	-
74	CI	B	M	B	1	800	-
74	CI	B	M	I	3	0	SCHOL
74	CI	B	M	O	1	0	WS
74	CI	B	M	S	2	0	USAF
74	CI	M	F	C	0	2600	+ TUITION
74	CI	M	F	C	0	2880	+ TUITION
74	CI	M	F	C	0	0	RA
74	CI	M	F	C	0	0	TRAINEE
74	CI	M	M	A	0	0	EPA TRAINEE.
74	CI	M	M	A	0	0	TRAINEE
74	CI	M	M	B	0	4200	+ TUITION
74	CI	M	M	B	0	2880	+ TUITION
74	CI	T	F	C	1	0	SCHOL LOAN
74	CS	A	F	C	0	1260	-
74	CS	B	F	F	1	3900	GRANT
74	CS	B	M	B	1	850	-
74	CS	D	F	C	0	5250	+ TUITION

YEAR	MAJOR	DEGREE	SEX	ETHNIC GROUP	CLASS STANDING	FINANCIAL SUPPORT AMOUNT	TYPE
74	CS	D	M	A	0	390	+ TUITION
74	CS	M	F	C	0	390	+ TUITION
74	DD	A	M	B	0	0	VO/REHAB
74	EL	A	M	B	2	300	-
74	EL	B	F	-	1	0	SCH.
74	EL	B	F	B	3	4500	GRANT LOAN
74	EL	B	F	C	3	2900	-
74	EL	B	F	C	2	4300	-
74	EL	B	F	C	1	950	-
74	EL	B	F	C	1	1300	-
74	EL	B	M	A	1	1830	GRANT LOAN
74	EL	B	M	A	3	900	NDSL
74	EL	B	M	A	1	2400	-
74	EL	B	M	A	1	1900	-
74	EL	B	M	B	2	2370	-
74	EL	B	M	B	0	0	LOAN
74	EL	B	M	B	0	0	VA
74	EL	B	M	B	0	0	VA
74	EL	B	M	B	2	1950	-
74	EL	B	M	B	3	1000	-
74	EL	B	M	B	0	3150	-
74	EL	B	M	B	2	0	USAF
74	EL	B	M	B	2	600	-
74	EL	B	M	F	1	3430	GRANT LOAN
74	EL	B	M	F	1	4080	GRANT LOAN
74	EL	B	M	S	3	3700	-
74	EL	B	M	S	2	825	TA
74	EL	B	M	S	3	3350	CEEB UOP NDEA
74	EL	D	M	A	0	2838	-
74	EL	D	M	O	1	2600	-
74	EL	M	F	C	0	0	GRAD ASST
74	EL	M	F	S	0	2500	-
74	EL	M	M	A	0	0	TA
74	EL	M	M	B	0	0	IBM
74	EL	M	M	B	1	0	CO TUI
74	EL	M	M	B	3	2700	-
74	EL	M	M	B	0	848	-
74	EL	M	M	B	0	5972	-
74	EL	M	M	B	1	0	ASST
74	EL	M	M	O	0	2064	-
74	EL	M	M	O	2	1000	-
74	EL	M	M	O	0	1000	-
74	EL	M	M	O	1	1080	-
74	EL	M	M	O	0	2400	-
74	EL	M	M	O	2	4800	-
74	EL	M	M	S	0	0	TA
74	EL	T	M	B	1	1471	-
74	EL	T	M	B	2	2444	-
74	EL	T	M	B	2	0	SCHOL
74	EL	T	M	B	2	0	VA
74	EL	T	M	B	2	0	VA

YEAR	MAJOR	DEGREE	SEX	ETHNIC GROUP	CLASS STANDING	FINANCIAL SUPPORT AMOUNT	TYPE
74	EN	B	F	-	1	600	-
74	EN	B	M	A	2	2700	-
74	EN	B	M	A	1	2700	-
74	EN	B	M	B	2	3700	-
74	EN	B	M	B	3	2940	-
74	EN	B	M	B	3	4250	-
74	EN	B	M	B	0	3000	-
74	EN	B	M	B	3	600	-
74	EN	B	M	B	3	400	-
74	EN	B	M	B	1	1000	-
74	EN	B	M	S	3	4000	-
74	EN	B	M	S	1	2000	-
74	EN	B	M	S	3	1400	-
74	EN	B	M	S	2	3200	-
74	EN	B	M	S	1	200	-
74	ES	B	F	-	1	800	-
74	ES	B	F	B	2	1850	-
74	ES	B	F	C	2	1100	LOAN WS
74	ES	B	F	C	1	1000	LOAN
74	ES	B	F	C	1	570	-
74	ES	B	F	C	2	1100	-
74	ES	B	F	C	1	3450	-
74	ES	B	F	C	2	400	-
74	ES	B	F	C	2	1000	-
74	ES	B	F	C	1	1250	-
74	ES	B	F	I	1	340	NDSL BIA
74	ES	B	M	B	3	1100	-
74	ES	B	M	B	3	0	USAF
74	ES	B	M	B	2	0	USAF
74	ES	B	M	S	2	1625	-
74	ES	B	M	S	1	2012	-
74	ES	B	M	S	1	2100	-
74	ES	B	M	S	1	2612	-
74	ES	D	F	C	0	0	RES ASST
74	ES	D	F	C	0	0	RES ASST
74	ES	D	F	C	0	0	RES ASST
74	ES	E	M	S	3	50	-
74	EV	M	F	C	0	4000	-
74	EV	M	F	C	0	4000	-
74	GL	B	F	C	1	150	-
74	GL	B	F	C	1	1056	-
74	GL	B	F	C	1	500	-
74	GL	B	M	A	2	700	-
74	GL	B	M	A	2	1490	-
74	IN	B	F	C	1	1200	SCHOL
74	IN	B	M	B	3	0	PART
74	IN	M	F	C	0	3500	R.A.
74	IN	M	F	C	0	1500	-
74	IN	M	F	C	0	5550	-
74	IN	M	M	S	0	0	LASPAU SCHOL
74	ME	A	M	S	1	450	-

YEAR	MAJOR	DEGREE	SEX	ETHNIC GROUP	CLASS STANDING	FINANCIAL SUPPORT AMOUNT	TYPE
74	ME	B	-	B	0	1000	-
74	ME	B	F	B	3	1225	-
74	ME	B	F	C	2	1200	-
74	ME	B	F	C	1	0	LOAN
74	ME	B	F	C	2	825	-
74	ME	B	F	C	2	1750	-
74	ME	B	F	C	3	1890	-
74	ME	B	F	C	2	2550	-
74	ME	B	M	A	3	1800	-
74	ME	B	M	B	2	1800	-
74	ME	B	M	B	2	500	-
74	ME	B	M	B	2	0	ROTC
74	ME	B	M	F	1	4610	GRANT LOAN
74	ME	B	M	S	0	1250	-
74	ME	D	M	A	0	3298	-
74	ME	D	M	O	1	300	-
74	ME	D	M	O	1	300	-
74	ME	M	F	C	0	3000	-
74	ME	M	F	C	0	2880	+ TUITION
74	ME	M	M	A	0	3198	-
74	ME	M	M	A	0	0	TA
74	ME	M	M	A	0	0	TA
74	ME	M	M	A	2	300	-
74	ME	M	M	B	1	0	TA
74	ME	M	M	B	2	300	-
74	ME	M	M	O	1	300	-
74	ME	M	M	S	0	0	WS
74	ME	T	M	I	3	900	-
74	MI	B	M	S	3	1750	-
74	MS	B	F	C	3	1500	-
74	MS	D	F	C	0	4200	+ TUITION
74	MS	M	F	C	0	4200	+ TUITION
74	MS	M	F	C	0	4200	+ TUITION
74	MT	B	F	C	2	1406	-
74	MT	B	F	C	1	1456	-
74	NU	B	F	S	2	200	VANDORN SCHOL
74	NU	M	F	C	0	2400	AEC TRAIN
74	NU	M	F	C	1	3000	-
74	NU	M	M	A	1	2250	-
74	NU	T	F	C	2	200	-
74	OE	M	M	S	0	0	VA
74	SY	B	F	C	1	100	-
74	SY	B	F	C	1	100	-
74	SY	B	F	C	2	190	-
74	TR	A	M	B	0	0	VA
74	TR	A	M	B	0	0	VA
74	TR	A	M	B	0	0	VA
74	TR	A	M	B	0	0	VA
75	-	B	M	B	3	3100	-
75	-	B	M	S	2	4400	MAP

YEAR	MAJOR	DEGREE	SEX	ETHNIC GROUP	CLASS STANDING	FINANCIAL SUPPORT AMOUNT	TYPE
75	AC	A	M	B	0	0	VA
75	AC	A	M	B	0	0	VA
75	AE	B	F	C	2	1800	-
75	AE	B	F	C	2	2825	-
75	AE	B	M	-	1	1456	-
75	AE	B	M	A	1	0	USAF
75	AE	B	M	B	3	1500	-
75	AE	B	M	B	3	900	-
75	AE	B	M	S	1	2076	-
75	AE	M	M	-	2	1456	-
75	AG	M	F	A	1	3700	-
75	AR	B	F	C	0	0	LOAN
75	AR	B	M	S	2	700	G M
75	AR	T	M	B	2	1950	-
75	BI	B	M	B	1	700	-
75	BI	B	M	B	1	1550	-
75	BI	B	M	F	0	3330	GRANT LOAN
75	BI	D	F	O	0	2600	+ TUITION
75	CH	A	F	C	3	1050	-
75	CH	B	-	A	1	0	SCH.
75	CH	B	F	-	2	0	SCH.
75	CH	B	F	C	1	500	-
75	CH	B	F	C	1	2180	-
75	CH	B	F	C	1	300	-
75	CH	B	F	C	1	500	-
75	CH	B	F	C	1	4000	SCHOL
75	CH	B	F	C	0	2200	-
75	CH	B	F	C	1	2200	-
75	CH	B	F	C	2	700	-
75	CH	B	F	C	2	600	-
75	CH	B	F	C	1	500	-
75	CH	B	M	B	3	2900	-
75	CH	B	M	B	1	2100	-
75	CH	B	M	B	0	1500	-
75	CH	B	M	I	2	0	LOAN
75	CH	M	F	C	0	500	-
75	CH	M	F	C	0	1155	-
75	CH	M	F	C	0	2800	-
75	CH	M	F	C	0	300	-
75	CH	M	F	C	1	3325	-
75	CH	M	M	A	0	405	-
75	CI	B	F	-	2	0	SCH.
75	CI	B	F	C	2	750	-
75	CI	B	F	C	1	500	-
75	CI	B	F	C	1	750	-
75	CI	B	F	C	1	1000	SCHOL
75	CI	B	F	C	0	600	SCHOL
75	CI	B	M	A	1	1400	-
75	CI	B	M	A	1	0	WS
75	CI	B	M	A	2	0	SCHOL
75	CI	B	M	B	3	2500	-

YEAR	MAJOR	DEGREE	SEX	ETHNIC GROUP	CLASS STANDING	FINANCIAL SUPPORT AMOUNT	TYPE
75	CI	B	M	B	2	1020	-
75	CI	B	M	B	1	0	WS
75	CI	B	M	B	3	2500	-
75	CI	B	M	B	3	3600	-
75	CI	B	M	F	1	3200	GRANT LOAN
75	CI	B	M	S	1	3114	CIP NDEA
75	CI	B	M	S	3	0	EOP
75	CI	B	M	S	2	1035	-
75	CI	D	F	C	0	0	TUITION
75	CI	M	M	A	0	0	TRAINEE
75	CI	M	M	B	0	300	FEL
75	CI	T	F	C	0	0	FULL TUI
75	CI	T	F	C	3	200	-
75	CI	T	M	B	3	810	SCHOL
75	CS	A	F	C	1	1300	-
75	CS	A	F	C	1	1300	-
75	CS	A	M	B	3	1568	-
75	CS	M	M	B	0	3120	+ TUITION
75	DD	A	F	C	0	0	VET SS VO/REHAB
75	EL	-	F	-	0	0	0
75	EL	A	F	C	2	1700	-
75	EL	A	M	B	0	0	VA
75	EL	A	M	B	0	0	SS
75	EL	B	-	A	2	0	SCH.
75	EL	B	-	A	2	0	SCH.
75	EL	B	-	A	2	0	SCH.
75	EL	B	F	C	1	3400	-
75	EL	B	F	C	1	200	-
75	EL	B	F	C	2	0	TUI
75	EL	B	F	C	3	1900	-
75	EL	B	F	C	0	0	WS
75	EL	B	M	A	1	500	SCHOL
75	EL	B	M	A	1	1550	G M
75	EL	B	M	A	2	950	TA
75	EL	B	M	A	2	2000	GRANT LOAN
75	EL	B	M	A	1	3200	-
75	EL	B	M	B	3	4100	GRANT LOAN
75	EL	B	M	B	3	3950	-
75	EL	B	M	B	1	400	-
75	EL	B	M	B	1	1900	NDL UF IPR GILP
75	EL	B	M	B	3	2600	SEOG SPTD
75	EL	B	M	B	3	0	NAVY SCHOL
75	EL	B	M	B	2	2100	-
75	EL	B	M	B	2	2050	-
75	EL	B	M	B	3	1000	-
75	EL	B	M	B	3	2800	-
75	EL	B	M	B	3	2800	-
75	EL	B	M	B	2	2000	-
75	EL	B	M	B	2	0	CO-OP
75	EL	B	M	B	3	2000	-
75	EL	B	M	B	0	900	W/S

YEAR	MAJOR	DEGREE	SEX	ETHNIC GROUP	CLASS STANDING	FINANCIAL SUPPORT AMOUNT	TYPE
75	EL	B	M	B	3	3250	-
75	EL	B	M	B	2	3750	-
75	EL	B	M	B	3	1700	-
75	EL	B	M	B	3	2550	-
75	EL	B	M	B	3	850	NDSL
75	EL	B	M	B	3	0	FULL
75	EL	B	M	F	1	5080	GRANT LOAN
75	EL	B	M	F	2	4080	GRANT LOAN
75	EL	B	M	F	1	4260	GRANT LOAN
75	EL	B	M	I	1	0	SCHOL LOAN WS
75	EL	B	M	O	3	3980	NSDA SS CIP
75	EL	B	M	O	3	3480	CIP SS NDEA
75	EL	B	M	S	1	1600	-
75	EL	B	M	S	2	2125	-
75	EL	D	F	B	0	4085	-
75	EL	D	M	O	1	4000	-
75	EL	D	M	O	1	5400	-
75	EL	D	M	O	1	3600	-
75	EL	M	F	C	0	0	IBM
75	EL	M	F	C	0	0	IBM
75	EL	M	F	C	0	0	IBM
75	EL	M	F	C	0	1500	-
75	EL	M	M	A	0	1933	-
75	EL	M	M	B	0	2138	-
75	EL	T	M	B	0	1340	-
75	EL	T	M	S	2	0	VA
75	EN	B	F	-	1	550	-
75	EN	B	F	B	3	2800	-
75	EN	B	F	C	3	2200	-
75	EN	B	F	C	2	1750	-
75	EN	B	F	C	3	2715	-
75	EN	B	F	C	2	1600	-
75	EN	B	F	C	1	2100	-
75	EN	B	F	C	3	3000	-
75	EN	B	F	C	2	2500	-
75	EN	B	F	C	1	1500	-
75	EN	B	F	S	3	2700	-
75	EN	B	M	A	3	2600	-
75	EN	B	M	B	3	4600	-
75	EN	B	M	B	2	2550	-
75	EN	B	M	B	3	0	USAF
75	EN	B	M	S	2	2800	-
75	EN	B	M	S	0	3500	-
75	EN	B	M	S	1	4300	-
75	EN	M	F	A	0	2500	-
75	EN	M	M	B	0	3806	-
75	ES	B	F	C	1	500	-
75	ES	B	F	C	2	800	-
75	ES	B	F	C	1	1750	-
75	ES	B	F	C	1	456	-
75	ES	B	F	C	0	2400	-
75	ES	B	F	C	2	1300	-

YEAR	MAJOR	DEGREE	SEX	ETHNIC GROUP	CLASS STANDING	FINANCIAL SUPPORT AMOUNT	TYPE
75	ES	B	F	C	2	1200	-
75	ES	B	F	C	2	750	-
75	ES	B	F	S	2	756	-
75	ES	B	M	B	2	0	USAF
75	ES	B	M	F	1	4400	GRANT LOAN
75	ES	B	M	S	3	1057	-
75	ES	D	F	C	0	0	RES ASST
75	ES	D	F	C	0	0	RES ASST
75	ES	D	M	B	0	0	RES ASST
75	ES	E	F	C	3	250	-
75	ES	M	F	B	0	3600	-
75	ES	M	F	C	0	240	-
75	ES	M	M	S	0	3600	-
75	GL	B	F	C	3	1875	-
75	GL	B	F	C	1	800	-
75	GL	B	F	C	2	2170	-
75	GL	B	F	C	1	1754	-
75	GL	B	F	C	2	1250	-
75	GL	M	M	A	0	1500	-
75	IN	A	M	B	0	0	WS
75	IN	B	F	C	1	2080	-
75	IN	B	F	C	1	1280	-
75	IN	B	M	B	3	0	PART
75	IN	B	M	B	1	0	SCHOL
75	IN	B	M	B	2	0	SCHOL
75	IN	B	M	F	1	3930	GRANT LOAN
75	IN	D	F	B	0	5550	-
75	ME	A	M	B	2	1300	-
75	ME	B	-	A	0	0	SCH.
75	ME	B	-	B	3	0	SCH.
75	ME	B	-	B	0	0	SCH.
75	ME	B	-	S	2	0	SCH.
75	ME	B	F	-	0	0	SCH.
75	ME	B	F	A	2	1600	GRANT LOAN
75	ME	B	F	B	3	3850	-
75	ME	B	F	C	2	2300	-
75	ME	B	F	C	1	3370	-
75	ME	B	M	A	2	3880	GRANT LOAN
75	ME	B	M	A	3	2750	-
75	ME	B	M	B	3	3900	-
75	ME	B	M	B	0	0	LOAN
75	ME	B	M	B	2	0	CO-OP
75	ME	B	M	B	3	0	PART
75	ME	B	M	B	3	3850	-
75	ME	B	M	B	3	0	FULL
75	ME	B	M	F	1	4500	GRANT LOAN
75	ME	B	M	S	0	0	WS LOAN
75	ME	B	M	S	2	2500	LOAN
75	ME	B	M	S	1	2700	-
75	ME	D	M	B	0	0	P/T INST
75	ME	D	M	S	0	0	NSF

YEAR	MAJOR	DEGREE	SEX	ETHNIC GROUP	CLASS STANDING	FINANCIAL SUPPORT AMOUNT	TYPE
75	ME	M	M	S	0	760	-
75	MS	M	M	A	0	3398	-
75	MT	B	M	B	2	1400	-
75	NU	A	M	B	1	0	WS
75	NU	B	F	A	0	250	NE-FAC SCHOL
75	NU	T	F	C	1	200	-
75	NU	T	F	C	1	200	-
75	OP	D	F	C	0	2600	-
75	OT	D	F	C	0	2880	+ TUITION
75	PE	B	M	B	2	750	-
75	RA	T	F	C	0	200	SCHOL
75	TR	A	M	B	0	0	VA
75	TR	A	M	B	0	0	VA
75	TR	A	M	B	0	0	VA
75	TR	A	M	B	0	0	VA
75	TR	A	M	B	0	0	VA
77	EL	M	M	B	0	0	IBM

NOTE: CODE LETTER F IN THE "ETHNIC GROUP" COLUMN FOR A FEW STUDENTS SHOULD BE 0 (OTHER OR UNIDENTIFIED.)